

## Title (en)

DRUG RECOGNIZING DEVICE, DRUG RECOGNIZING METHOD, AND DRUG RECOGNIZING PROGRAM

## Title (de)

ARZNEIMITTELERKENNUNGSVORRICHTUNG, ARZNEIMITTELERKENNUNGSVERFAHREN UND  
ARZNEIMITTELERKENNUNGSPROGRAMM

## Title (fr)

DISPOSITIF DE RECONNAISSANCE DE MÉDICAMENT, PROCÉDÉ DE RECONNAISSANCE DE MÉDICAMENT ET PROGRAMME DE  
RECONNAISSANCE DE MÉDICAMENT

## Publication

**EP 3603604 A4 20200401 (EN)**

## Application

**EP 18770371 A 20180227**

## Priority

- JP 2017057785 A 20170323
- JP 2017224318 A 20171122
- JP 2018007235 W 20180227

## Abstract (en)

[origin: US2019377977A1] Provided are a drug recognizing apparatus, a drug recognizing method, and a drug recognizing program capable of enhancing robustness of a master image in a case where a drug is recognized. The drug recognizing apparatus includes an illumination unit that illuminates a drug; an imaging unit that images the illuminated drug; a storage unit that stores a master image for each drug type; a drug position acquiring unit that acquires a position of the drug on the basis of a captured image obtained by the imaging unit; a master image generating unit that generates the master image from a drug area in the captured image; an updating determination unit that determines whether to update the master image on the basis of the position of the drug acquired by the drug position acquiring unit; and a registration unit that registers the master image in the storage unit in a case where it is determined that the master image is to be updated.

## IPC 8 full level

**A61J 3/00** (2006.01); **G01N 21/85** (2006.01); **G01N 21/95** (2006.01); **G06V 10/141** (2022.01); **G06V 10/772** (2022.01); **G16H 20/13** (2018.01)

## CPC (source: EP US)

**A61J 1/03** (2013.01 - US); **G06F 18/28** (2023.01 - US); **G06V 10/141** (2022.01 - EP US); **G06V 10/772** (2022.01 - EP US); **G06V 20/66** (2022.01 - EP US); **G16H 20/13** (2017.12 - EP); **G16H 30/40** (2017.12 - EP); **A61J 2200/70** (2013.01 - US); **A61J 2205/40** (2013.01 - US); **A61J 2205/50** (2013.01 - US); **G01N 21/9508** (2013.01 - EP); **G06V 2201/03** (2022.01 - US); **G06V 2201/06** (2022.01 - EP)

## Citation (search report)

- [IDY] WO 2015152225 A1 20151008 - YUYAMA MFG CO LTD [JP] & US 2017264867 A1 20170914 - AMANO HIROKAZU [JP], et al
- [Y] EP 2924647 A1 20150930 - YUYAMA MFG CO LTD [JP]
- [Y] US 2016210524 A1 20160721 - HASEGAWA KAZUHIDE [JP]
- [A] EP 2959881 A1 20151230 - YUYAMA MFG CO LTD [JP]
- [A] US 2012243797 A1 20120927 - DI VENUTO DAYER CELINE [CH], et al
- [A] US 9349076 B1 20160524 - LIU JIONGXIN [US], et al
- See references of WO 2018173649A1

## Cited by

FR3122008A1; WO2022223908A1

## Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

## Designated extension state (EPC)

BA ME

## DOCDB simple family (publication)

**US 11574141 B2 20230207**; **US 2019377977 A1 20191212**; CN 110418627 A 20191105; CN 110418627 B 20211116; EP 3603604 A1 20200205; EP 3603604 A4 20200401; JP 6767565 B2 20201014; JP WO2018173649 A1 20191212; WO 2018173649 A1 20180927

## DOCDB simple family (application)

**US 201916547208 A 20190821**; CN 201880017385 A 20180227; EP 18770371 A 20180227; JP 2018007235 W 20180227; JP 2019507478 A 20180227